Contents to volume 301

Research Letters

Effect of TGFβ on liver genes expression: Antagonistic effect of TGFβ on IL-6-stimulated genes in Hep 3B cells (FEBS 10872) *G. Morrone, V. Poli, J.H. Hassan, V. Sorrentino* 1

Cloning and characterization of the rat glutathione peroxidase gene (FEBS 10904) *Y.-S. Ho, A.J. Howard* 5

Purification, inhibitory properties and amino acid sequence of a new serine proteinase inhibitor from white mustard (*Sinapis alba* L.) seed (FEBS 10905) *E. Menegatti, G. Tedeschi, S. Ronchi, F. Bortolotti, P. Ascenzi, R.M. Thomas, M. Bolognesi, S. Palmieri* 10

Phosphoprotein phosphatase 2A dephosphorylates eIF-4E and does not alter binding to the mRNA cap (FEBS 10906) *X. Bu, C.H. Hagedorn* 15

Apamin-sensitive potassium channels mediate agonist-induced oscillations of membrane potential in pituitary gonadotrophs (FEBS 10907) *M. Kukuljan, S.S. Stojilković, E. Rojas, K.J. Catt* 19

Biochemical characterization of the p51 sub-unit of human immunodeficiency virus reverse transcriptase in homo- and heterodimeric recombinant forms of the enzyme (FEBS 10908) *R. El Dirani-Diab, M.-L. Andreola, G. Nevinsky, D. Tharaud, P.J. Barr, S. Litvak, L. Tarrago-Litvak* 23

A gene family homologous to the S-phase specific gene in higher plants is essential for cell proliferation in *Saccharomyces cerevisiae* (FEBS 10909) *M. Ito, A. Yasui, A. Komamine* 29

A dysfunctional C1 inhibitor protein with a new reactive center mutation (Arg-444→Leu) (FEBS 10910) *D. Frangi, K.S. Aulak, M. Cicardi, R.A. Harrison, A.E.D. III* 34

Heat-shock responsive elements in the induction of the multidrug resistance gene (*MDR1*) (FEBS 10911) *N. Kioka, Y. Yamano, T. Komano, K. Ueda* 37

Pine stilbene synthase cDNA, a tool for probing environmental stress (FEBS 10913) *A. Schwekendiek, G. Pfeffer, H. Kindl* 41

Effect of temperature on the kinetics of electron transfer from the tetraheme cytochrome to the primary donor in *Rhodopseudomonas viridis* (FEBS 10914) *J.M. Ortega, P. Mathis* 45

Structural and functional correlates of a mutation in the malignant hyperthermia-susceptible pig ryanodine receptor (FEBS 10915) *J.R. Mickelson, C.M. Knudson, C.F.H. Kennedy, D.-I. Yang, L.A. Litterer, W.E. Rempel, K.P. Campbell, C.F. Louis* 49

Calcium signaling in lymphocytes and ELF fields: Evidence for an electric field metric and a site of interaction involving the calcium ion channel (FEBS 10912) *R.P. Liburdy* 53

Rainbow trout cytochrome $P\text{-}450_{c17}$ (17α-hydroxylase/17,20-lyase): cDNA cloning, enzymatic properties and temporal pattern of ovarian $P\text{-}450_{c17}$ mRNA expression during oogenesis (FEBS 10916) *N. Sakai, M. Tanaka, S. Adachi, W.L. Miller, Y. Nagahama* 60

cDNA cloning of rat proteasome subunit RC1, a homologue of RING10 located in the human MHC class II region (FEBS 10917) *M. Aki, T. Tamura, F. Tokunaga, S. Iwanaga, Y. Kawamura, N. Shimbara, S. Kagawa, K. Tanaka, A. Ichihara* 65

Development of insulin sensitivity in rat skeletal muscle: Studies of glucose transporter and insulin receptor mRNA levels (FEBS 10918) *S. Wallace, G. Campbell, R. Knott, G.W. Gould, J. Hesketh* 69

Expression of 9 *Salmonella typhimurium* enzymes for cobinamide synthesis: Identification of the 11-methyl and 20-methyl transferases of corrin biosynthesis (FEBS 10919) *C.A. Roessner, M.J. Warren, P.J. Santander, B.P. Atshaves, S.-i. Ozaki, N.J. Stolowich, K. Iida, A.I. Scott* 73

A consensus repeat sequence from the human insulin gene linked polymorphic region adopts multiple quadriplex DNA structures in vitro (FEBS 10920) *M.C.U. Hammond-Kosack, K. Docherty* 79

Cloning and sequence analysis of the phenylalanyl-tRNA synthetase genes (*pheST*) from *Thermus thermophilus* (FEBS 10921) *B. Keller, P. Kast, H. Hennecke* 83

Expansion of the mammalian 3β-hydroxysteroid dehydrogenase/plant dihydroflavonol reductase superfamily to include a bacterial cholesterol dehydrogenase, a bacterial UDP-galactose-4-epimerase, and open reading frames in vaccinia virus and fish lymphocystis disease virus (FEBS 10922) *M.E. Baker, R. Blasco* 89

Stimulation of glucose transport in L6 muscle cells by long-term intermittent stretch–relaxation (FEBS 10944) *Y. Mitsumoto, G.P. Downey, A. Klip* 94

The amino-terminal fragment of gelsolin is cross-linked to Cys-374 of actin in the EGTA-resistant actin–gelsolin complex (FEBS 10923) *Y. Doi, Y. Kanatani, F. Kim* 99

Effects of okadaic acid on the activities of two distinct phosphatidate phosphohydrolases in rat hepatocytes (FEBS 10924) *A. Gomez-Muñoz, G.M. Hatch, A. Martin, Z. Jamal, D.E. Vance, D.N. Brindley* 103

Phorbol ester-induced secretion of human hepatocyte growth factor by human skin fibroblasts and its inhibition by dexamethasone (FEBS 10925) *E. Gohda, H. Kataoka, H. Tsubouchi, Y. Daikilara, I. Yamamoto* 107

The consensus sequences for cdc2 kinase and for casein kinase-2 are mutually incompatible: A study with peptides derived from the β-subunit of casein kinase-2 (FEBS 10926) *O. Marin, F. Meggio, G. Draetta, L.A. Pinna* 111

Unimpaired effect of insulin on glucokinase gene expression in hepatocytes challenged with amylin (FEBS 10954) *T. Nouspikel, A. Gjinovci, S. Li, P.B. Iynedjian* 115

Rapid kinetics of the interaction between daunomycin and drug-sensitive or drug-resistant P388 leukemia cells (FEBS 10951) *F. Soto, J.M. Canaves, J.M. Gonzalez-Ros, J.A. Ferragut* 119

Errata and Corrigenda 124

Hypothesis

Controversy on chloroplast origins (FEBS 10942) *P.J. Lockhart, D. Penny, M.D. Hendy, C.J. Howe, T.J. Beanland, A.W.D. Larkum* 127

Research Letters

Expression cloning of a sheep adreno-ferredoxin using the polymerase chain reaction (FEBS 10929) *Y. Matsuo, M. Tsujita, K. Mizoguchi, Y. Ichikawa* 132

Incorporation of *N*-acyl-2-amino-2-deoxy-hexoses into glycosphingolipids of the pheochromocytoma cell line PC 12 (FEBS 10927) *H. Kayser, C.C. Geilen, C. Paul, R. Zeitler, W. Reutter* 137

Ganglio-*N*-tetraosylceramide (GA1) of bovine and human brain: Molecular characterization and presence in myelin (FEBS 10930) *S. Dasgupta, H. van Halbeek, E.L. Hogan* 141

Stoichiometric association of extrinsic cytochrome c_{550} and 12 kDa protein with a highly purified oxygen-evolving photosystem II core complex from *Synechococcus vulcanus* (FEBS 10931) *J.-R. Shen, M. Ikeuchi, Y. Inoue* 145

Measurement of relative amounts of phospho- and dephospho-B-50(GAP-43) peptides by fast atom bombardment-mass spectrometry (FEBS 10938) *M. Di Luca, P.N.E. de Graan, L. De Angelis, W.H. Gispen, F. Cattabeni* 150

Induction of vascular smooth muscle cell growth by selective activation of the thrombin receptor: Effect of heparin (FEBS 10935) *J.M. Herbert, I. Lamarche, F. Dol* 155
The three-dimensional structure of notexin, a presynaptic neurotoxic phospholipase A_2 at 2.0 Å resolution (FEBS 10928) *B. Westerlund, P. Nordlund, U. Uhlin, D. Eaker, H. Eklund* 159
Human surfactant polypeptide SP-B: Disulfide bridges, C-terminal end, and peptide analysis of the airway form (FEBS 10936) *J. Johansson, H. Jörnvall, T. Curstedt* 165
I_{SK}, a slowly activating voltage-sensitive K^+ channel: Characterization of multiple cDNAs and gene organization in the mouse (FEBS 10934) *F. Lesage, B. Attali, M. Lazdunski, J. Barhanin* 168
Atomic force microscopy of DNA molecules (FEBS 10933) *J. Yang, K. Takeyasu, Z. Shao* 173
Light-induced oxidation of iron atoms in a photosensitive nitrile hydratase (FEBS 10932) *J. Honda, Y. Teratani, Y. Kobayashi, T. Nagamune, H. Sasabe, A. Hirata, F. Ambe, I. Endo* 177
Presence of functionally different compartments of the Ca^{2+} store in single intestinal smooth muscle cells (FEBS 10939) *T. Yamazawa, M. Iino, M. Endo* 181
Genomic structure of the gene for copper/zinc-superoxide dismutase in rice (FEBS 10940) *A. Sakamoto, T. Okumura, H. Ohsuga, K. Tanaka* 185
Transforming growth factors type-β and dexamethasone attenuate group II phospholipase A_2 gene expression by interleukin-1 and forskolin in rat mesangial cells (FEBS 10943) *H. Mühl, T. Geiger, W. Pignat, F. Märki, H. van den Bosch, N. Cerletti, D. Cox, G. McMaster, K. Vosbeck, J. Pfeilschifter* 190
Curcumin inhibits nitrite-induced methemoglobin formation (FEBS 10946) *M.K. Unnikrishnan, M.N.A. Rao* 195
Two excited states in aequorin bioluminescence induced by tryptophan modification (FEBS 10945) *Y. Ohmiya, M. Ohashi, F.I. Tsuji* 197
The expression of lactase enzymatic activity and mRNA in human fetal jejunum: Effect of organ culture and of treatment with hydrocortisone (FEBS 10941) *M. Villa, D. Ménard, G. Semenza, N. Mantei* 202
A predicted three-dimensional structure for the carcinoembryonic antigen (CEA) (FEBS 10937) *P.A. Bates, J. Luo, M.J.E. Sternberg* 207
Identification of two genes of *Rhodobacter capsulatus* coding for proteins homologous to the ND1 and 23 kDa subunits of the mitochondrial Complex I (FEBS 10948) *A. Dupuis* 215
Facile synthesis of chiral 2-hydroxy acids catalyzed by a stable duck ε-crystallin with endogenous L-lactate dehydrogenase activity (FEBS 10950) *C.-Y. Wu, S.-T. Chen, S.-H. Chiou, K.-T. Wang* 219
Synergism in cytosolic Ca^{2+} mobilization between bradykinin and agonists for pertussis toxin-sensitive G-protein-coupled receptors in NG 108-15 cells (FEBS 10952) *F. Okajima, Y. Kondo* 223
Structure/function analyses of human sex hormone-binding globulin by site-directed mutagenesis (FEBS 10953) *W.P. Bocchinfuso, S. Warmels-Rodenhiser, G.L. Hammond* 227
Ubiquitin, a central component of selective cytoplasmic proteolysis, is linked to proteins residing at the locus of non-selective proteolysis, the vacuole (FEBS 10949) *A. Simeon, I.J. van der Klei, M. Veenhuis, D.H. Wolf* 231
NADH:ubiquinone oxidoreductase from bovine heart mitochondria: A fourth nuclear encoded subunit with a homologue encoded in chloroplast genomes (FEBS 10947) *J.M. Arizmendi, M.J. Runswick, J.M. Skehel, J.E. Walker* 237
Expression of the N-terminal domain of dystrophin in *E. coli* and demonstration of binding to F-actin (FEBS 10956) *M. Way, B. Pope, R.A. Cross, J. Kendrick-Jones, A.G. Weeds* 243
Two sites of primary degradation of the D1-protein induced by acceptor or donor side photo-inhibition in photosystem II core complexes (FEBS 10957) *J.D.L. Rivas, B. Andersson, J. Barber* 246
cDNA-derived amino-acid sequence of lentil seedlings' amine oxidase (FEBS 10958) *A. Rossi, R. Petruzzelli, A.F. Agrò* 253
Rhizomucor miehei lipase remains highly active at water activity below 0.0001 (FEBS 10964) *R.H. Valivety, P.J. Halling, A.R. Macrae* 258
Ornithine decarboxylase from *Crithidia fasciculata* is metabolically unstable and resistant to polyamine down-regulation (FEBS 10959) *C. Ceriani, N.S. González, I.D. Algranati* 261
Signal propagation via gap junctions, a key step in the regulation of liver metabolism by the sympathetic hepatic nerves (FEBS 10960) *F.G. Seseke, A. Gardemann, K. Jungermann* 265
The UDP-*N*-acetylglucosamine 1-carboxyvinyl-transferase of *Enterobacter cloacae*: Molecular cloning, sequencing of the gene and overexpression of the enzyme (FEBS 10961) *C. Wanke, R. Falchetto, N. Amrhein* 271
Serum calcium-decreasing factor (caldecrin) from porcine pancreas has proteolytic activity which has no clear connection with the calcium decrease (FEBS 10962) *A. Tomomura, T. Fukushige, T. Noda, T. Noikura, T. Saheki* 277
Expression of c-*met* proto-oncogene in COS cells induces the signal transducing high-affinity receptor for hepatocyte growth factor (FEBS 10963) *O. Higuchi, K. Mizuno, G.F. Vande Woude, T. Nakamura* 282
Do submaximal $InsP_3$ concentrations only induce the partial discharge of permeabilized hepatocyte calcium pools because of the concomitant reduction of intraluminal Ca^{2+} concentration? (FEBS 10965) *L. Combettes, M. Claret, P. Champeil* 287
Functional control of gastrin releasing peptide (GRP) mRNA in rat stomach (FEBS 10985) *R. Dimaline, A.K. Sandvik, G. Barclay, G.J. Dockray* 291
Two different cDNAs encoding TFIID proteins of maize (FEBS 10989) *M.M. Haaß, G. Feix* 294
Effects of pressure on glucose transport in human erythrocytes (FEBS 10955) *S.D. Thorne, A.C. Hall, A.G. Lowe* 299
Expression in animal cells of the 5-HT_{1A} receptor by a vaccinia virus vector system (FEBS 10969) *B.Y. Ho, A. Karschin, J.R. Raymond, T. Branchek, H.A. Lester, N. Davidson* 303
Quercetin, a bioflavonoid, inhibits the increase of human multidrug resistance gene (*MDR1*) expression caused by arsenite (FEBS 10968) *N. Kioka, N. Hosokawa, T. Komano, K. Hirayoshi, K. Nagata, K. Ueda* 307
Development and characterization of a protein kinase C β-isozyme-deficient T-cell line (FEBS 10972) *D. Kelleher, A. Long* 310
Stability and detection of recombinant pre-pro-concanavalin A after cytoplasmic expression in *Escherichia coli* (FEBS 10970) *W. Min, D.H. Jones* 315
Isolation and primary structure of a novel chromogranin A-derived peptide, WE-14, from a human midgut carcinoid tumour (FEBS 10974) *W.J. Curry, C. Shaw, C.F. Johnston, L. Thim, K.D. Buchanan* 319
Inserting foreign peptides into the major coat protein of bacteriophage M13 (FEBS 10975) *A.A. Ilyichev, O.O. Minenkova, G.P. Kishchenko, S.I. Tat'kov, N.N. Karpishev, A.M. Eroshkin, V.I. Ofitzerov, Z.A. Akimenko, V.A. Petrenko, L.S. Sandakhchiev* 322

Author Index to Volume 301 325

Contents to Volume 301 329